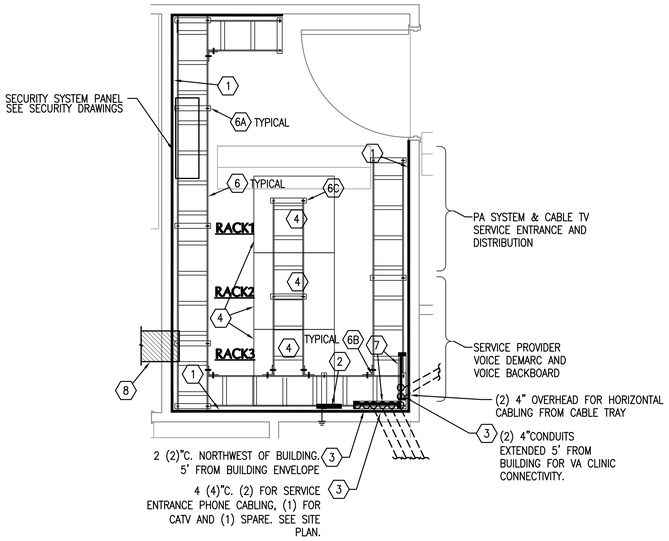



## ENLARGED TELECOMMUNICATIONS TELECOMMUNICATIONS ROOM (TR.A)

1 TN-201

2' 0' 2' 4'

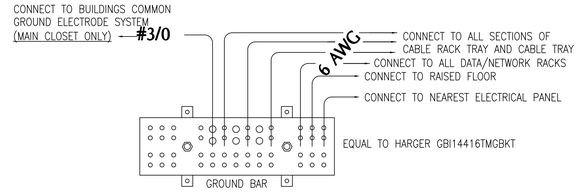
SCALE: 1/2"=1'-0"

## ENLARGED FLOOR PLAN KEY NOTES

1. PLYWOOD BACKBOARD, 8'-0" HIGH X FULL LENGTH OF WALL, MOUNT WITH BOTTOM AT 6" ABOVE FINISH FLOOR. ROUGH ALL ELECTRICAL OUTLETS IN BACKBOARD FOR FLUSH MOUNT INSTALLATION OF FACEPLATES. BACKBOARDS SHALL BE 3/4" THICK AC EXTERIOR GRADE PLYWOOD. COUNTERSINK ALL SCREWS. PRIME WITH TWO COATS PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS SEMI-GLOSS ENAMEL FIRE-RETARDENT PAINT, COLOR BATTLESHIP GREY. FINAL SURFACE SHALL BE UNIFORMLY SMOOTH AND EVEN. TOUCH UP AT END OF PROJECT. COORDINATE WORK WITH ELECTRICAL CONTRACTOR TO ENSURE THAT POWER RECEPTACLES ARE PROPERLY LOCATED AND WITH FACEPLATES FLUSH ON FACE OF BACKBOARD.
2. GROUNDING BUSBAR, WITH TWO ROWS OF 7/16"ø HOLES AT 1" SPACING EACH WAY. MAKE ALL CONNECTIONS WITH TWO HOLE LONG BARREL COMPRESSION LUGS AND BOND TO BUSBAR WITH TWO 3/8"ø SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS. SEE "GROUNDING NOTE" AND "VOICE SYSTEM SINGLE LINE DIAGRAM". ROUTE 3/4" EMT CONDUIT TO BUILDING MAIN ELECTRICAL PANEL FOR GROUNDING CONDUCTOR WITH INSULATED GROUNDING BUSHING.
3. COMMUNICATIONS BACKBONE CONDUIT. SEE COMMUNICATIONS SITE/FLOOR PLANS.
4. FLOOR MOUNT EQUIPMENT CABINET. REFER TO RACK ELEVATION DETAILS.
5. -
6. 12" WIDE CABLE RUNWAY, CHATSWORTH 10250-712 OR EQUAL, COLOR BLACK. PROVIDE BUTT-SPLICE KIT TO BUTT-SPLICE SECTIONS OF CABLE RUNWAY (PAINT BEFORE INSTALLING AND TOUCH UP AFTER INSTALLATION). INSTALL ALL CABLE RUNWAY, FITTINGS, AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
6A. 12" CABLE RUNWAY WALL ANGLE SUPPORT KIT, CHATSWORTH 11421-712 OR EQUAL, COLOR BLACK.
6B. CABLE RUNWAY JUNCTION SPLICE KIT, CHATSWORTH 16298-001 OR EQUAL.
6C. CEILING SUPPORT BRACKET, CHATSWORTH 11310-003 OR EQUAL, COLOR BLACK.
7. 18" WIDE CABLE RUNWAY, CHATSWORTH 10250-718 OR EQUAL, MOUNTED VERTICALLY FROM CONDUIT ENTRANCE IN FLOOR TO 7'-0". SEE "TYPICAL VERTICAL CABLE RUNWAY DETAIL".
8. 12" CABLE TRAY ENTERING ROOM AND TURNING DOWN WALL TO CABLE RUNWAY.

## GROUNDING NOTE

1) ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS WITH STAINLESS STEEL HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2 HOLE LUG).
2) PROVIDE GROUNDING BUSBARS IN ALL COMMUNICATION CLOSETS. GROUND MAIN BUSBAR TO BUILDING MAIN ELECTRICAL SERVICE GROUND WITH #3/0 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR AND #2/0 BETWEEN BUSBARS. RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING SERVICE GROUND IN EMT CONDUIT. PROVIDE INSULATED GROUNDING BUSHING – MALLEABLE IRON, STEEL CITY #BG-807 AT CONDUIT ENDS AND GROUND PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBPANELS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
3) GROUND ALL COMMUNICATION RACKS WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO MAIN GROUNDING BUSBAR. GROUND RACKS INDIVIDUALLY TO BUSBAR (DO NOT LOOP GROUNDS). ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
4) GROUND EACH CONDUIT AND CONDUIT SUPPORTS STRUTS IN ALL COMMUNICATIONS ROOMS WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.
5) GROUND CABLE RUNWAY WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.




## MAIN TELECOMMUNICATIONS ROOM GROUNDING BUSBAR DETAIL

2 TN401

NOT TO SCALE

FINAL SUBMISSION
APRIL 9, 2013

IF SHEET IS LESS THAN (30"x42") IT IS A REDUCED PRINT; SCALE ACCORDINGLY

TN401

TODD A. NICHOLSON LICENSE No. 46882 STATE OF FLORIDA PROFESSIONAL ENGINEER

BES DESIGN/BUILD
766 MIDDLE ST., FAIRHOPE, AL 36532 251-990-5778
ARCH. & ENGR. SEAL
FLORIDA BES DESIGN/BUILD LLC No. 29795 CERTIFICATE OF AUTHORIZATION

| | |
|---|---|
| NATURAL RESOURCES & ENVIRONMENTAL AFFAIRS SATISFACTORY TO DATE | P.W. DWG. NO. |
| SAFETY DEPARTMENT SATISFACTORY TO DATE | DRAWN BY CEC |
| FIRE DEPARTMENT SATISFACTORY TO DATE | CHECKED BY CEC |
| PUBLIC WORKS SUPERVISOR SATISFACTORY TO DATE | SUPERVISOR TAN |
| PUBLIC WORKS OFFICER | APPROVED DATE 02/15/2013 |

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
NAVAL SUPPORT ACTIVITY
PANAMA CITY, FLORIDA

CONSTRUCT NAVAL BRANCH CLINIC, PANAMA CITY
TELECOMMUNICATIONS ENLARGED PLANS

| | | |
|---|---|---|
| SIZE F | CODE IDENT. NO. | NAVFAC DRAWING NO. N/A |
| HQMC PROJ. NO. 520-13-200 | CONSTR. CONTR. NO. | |
| SCALE AS NOTED | MACC. | T.O.# ____ SHEET 4 OF 12 |